PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER		cation of Transmittal of International Search Report	
P1995R1	ACTION	below.	T/ISA/220) as well as, where applicable, item 5	
International application No. PCT/US03/35268				
Applicant GENENTECH, INC.				
according to Article 18. A copy This international search report of	nas been prepared by this International sis being transmitted to the International consists of a total of sheets. mpanied by a copy of each prior art doc	Bureau.	thority and is transmitted to the applicant in this report.	
1. Basis of the Report a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.				
Authority (Rule 23. b. With regard to any nu	the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)). b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing:			
contained in the int	ernational application in written form.		·	
filed together with t	the international application in computer i	eadable form.		
furnished subseque	ntly to this Authority in written form.			
furnished subseque	ntly to this Authority in computer readabl	e form.		
the statement that the subsequently furnished written sequence listing does not go beyond the disclosure international application as filed has been furnished.			not go beyond the disclosure in the	
the statement that the furnished.	the statement that the information recorded in computer readable form is identical to the written sequence listing has be furnished.			
2. Certain claims we	re found unsearchable (See Box I).			
	is lacking (See Box II).		•	
4. With regard to the title,	lan an bandun dibandan ama Kanad			
	as submitted by the applicant.		• • •	
ine text has been es	tablished by this Authority to read as follo	ows: •	•	
5. With regard to the abstract,				
	l as submitted by the applicant.			
. —		l, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, late of mailing of this international search report, submit comments to this Authority.		
6. The figure of the drawings	5. The figure of the drawings to be published with the abstract is Figure No			
as suggested by the applicant. because the applicant failed to suggest a figure.			None of the figures	
			·	
because this figure	better characterizes the invention.			

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Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)		
This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:		
1. Claim Nos.: because they relate to subject matter not required to be searched by this Authority, namely:		
Claim Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:		
3. Claim Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).		
Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)		
This International Searching Authority found multiple inventions in this international application, as follows: Please See Continuation Sheet		
 As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.: 		
abla		
4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-5 as drawn to SEQ ID NO: 1		
Remark on Protest The additional search fees were accompanied by the applicant's protest.		
No protest accompanied the payment of additional search fees.		

International application No.

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A. CLAS	SSIFICATION OF SUBJECT MATTER C07H 21/02(2006.01);C12N 15/00(2006.01)			
USPC: 536/23.1;435/455,320.1 According to International Patent Classification (IPC) or to both national classification and IPC				
B. FIEL	DS SEARCHED			
	cumentation searched (classification system followed be 6/23.1; 435/455, 320.1	y classification symbols)		
Documentation	on searched other than minimum documentation to the	extent that such documents are included in	the fields searched	
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EAST, STN, NCBI				
	UMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where a		Relevant to claim No.	
X 	NCBI ACCESSION NO: NM_002794, Homo sapien mRNA (see also version gi:19923146). 1992.	s proteasome subunit, beta type, 2,	1 .	
Y	a (666 disc voicion g)251 (6). 1772.	·	4-5	
X	X COUX et al., Structure and Function of the 20S and 26S proteasomes. Annu Rev Biochem. 1996;65:801-47, especially p. 806, Table 1 (PSMB2).		1	
Y	1990,03.001-47, especially p. 800, Table 1 (1 31411)2)		2-5	
Y A	ALBERTS et al., Eds. Molecular Biology of The Cell 2002, pages 500-502, especially figure 8-32 on page		2-5	
		·		
Further	documents are listed in the continuation of Box C.	See patent family annex.		
	pecial categories of cited documents: '	"T" later document published after the intern	national filing date or priority	
"A" document	date and not in conflict with the application but cited to understand the			
"E" earlier ap	plication or patent published on or after the international filing date	"X" document of particular relevance; the cl considered novel or cannot be considered when the document is taken alone		
establish	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combinative and the property of the p		when the document is combined	
"O" document	with one or more other such documents, such combination being obvious to a person skilled in the art			
"P" document published prior to the international filing date but later than the "&" document member of the same patent family priority date claimed				
Date of the a	Date of the actual completion of the international search Date of mailing of the international search report			
	11 July 2007 (11.07.2007)			
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US		Authorized officer	18 P	
Con	unissioner of Patents Box 1450	Cherie Woodward	ARY B. NICKOL, PH.D.	
Alex	Alexandria, Virginia 22313-1450 Facsimile No. 571-272-1600 Telephone No. 571-272-1600 SUPERVISORY PATENT EXAMINATION OF CENTER 160			

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C. (Continuation	on) DOCUMENTS CONSIDERED TO BE RELEVANT	* •
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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*		
	e.	·

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BOX II. OBSERVATIONS WHERE UNITY OF INVENTION IS LACKING

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fees must be paid.

Group 1. Claims 1-5, drawn to drawn to nucleic acids, vectors, and host cells, with respect to SEQ ID NO: 1

Groups 2-1477. Claims 1-5, drawn to nucleic acids, vectors, and host cells, with respect to SEQ ID NOs: 2-1477.

Group 1478. Claim 6, drawn to a process for producing a PRO polypeptide.

Groups 1479-2956. Claim 7, drawn to an isolated PRO polypeptide, with respect to SEQ ID NOs: 1-1477.

Groups 2957-4434. Claims 8-9, drawn to a fusion protein comprising a polypeptide of SEQ ID NOs: 1-1477 fused to a heterologus amino acid sequence.

Groups 4435-5912. Claims 10-11, drawn to an antibody that binds to any one of SEQ ID NOs: 1-1477.

Groups 5913-7390. Claims 12-14, drawn to a composition comprising a polypeptide of any one of SEQ ID NOs; 1-1477.

Groups 7391-8868. Claim 15, drawn to an article of manufacture comprising any one of SEQ ID NOs: 1-1477.

Groups 8869 -10346. Claims 16-17, drawn to a method of treating an immune related disorder comprising administering a polypeptide of SEQ ID NOs: 1-1477.

Groups 10347-11824. Claim 18, drawn to a method for determining the presence of a PRO polypeptide of SEQ ID NOs: 1-1477 in a sample.

Groups 11825-13302. Claims 19, 20, and 26, drawn to a method of diagnosing an immune related disease comprising detecting the level of expression of any of SEQ ID NOs: 1-1477.

Groups 13303-14780. Claim 21, drawn to a method of identifying a compound that inhibits the activity of a PRO polypeptide of SEQ ID NOs: 1-1477.

Groups 14781-16258. Claims 22-23, drawn to a method of identifying a compound that inhibits the expression of a gene encoding a PRO polypeptide of SEQ ID NOs: 1-1477.

Groups 16259-17736. Claim 24, drawn to a method of identifying a compound that mimics the activity of a PRO polypeptide of SEQ ID NO: 1-1477.

Groups 17737-19214. Claim 25, drawn to a method of stimulating the immune response in a mammal comprising administering any one of SEQ ID NOs: 1-1477.

This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In order for more than one species to be examined, the appropriate additional examination fees must be paid. The species are as follows:

SEQ ID NOs: 1-1477, which are structurally and functionally distinct sequences.

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